

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 02136123
PUBLICATION DATE : 24-05-90

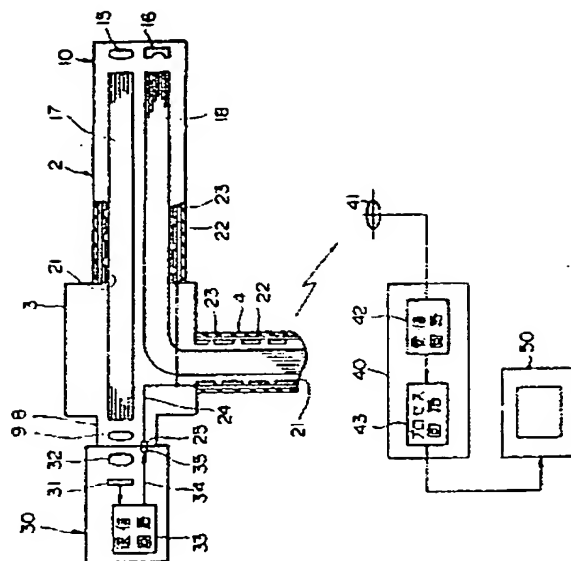
APPLICATION DATE : 18-11-88
APPLICATION NUMBER : 63291475

APPLICANT : OLYMPUS OPTICAL CO LTD;

INVENTOR : HATTORI SHINICHIRO;

INT.CL. : A61B 1/04 G02B 23/24

TITLE : ENDOSCOPIC APPARATUS



ABSTRACT : PURPOSE: To increase the degree of freedom of the arrangement of machinery and to enhance operability by connecting an imaging means and a display means by a radio system.

CONSTITUTION: The outer cover of an insert part and a light guide cable 4 is constituted of a flex 21, a blade 22 and a cover tube 23 in order from the inside. An externally fitted television camera 30 is equipped with a solid state imaging element 31, an image forming lens 32 for forming an image on said element 31 and a transmission circuit 33 for converting the output signal of the solid state imaging element to a high frequency FM signal. A CCD 40 is equipped with the flex 21 as an antenna, an antenna 41 receiving the radio wave from the blade 22, the receiving circuit 42 connected to the antenna 41 and performing demodulation so as to obtain the same waveform as the output signal of the solid state imaging element 31 and a process circuit 43 for converting the signal from said circuit 42 to an image signal. The image signal is displayed on a monitor 50. By this constitution, the image signal from an imaging means is sent out to a display means to be connected by radio. The transmission antenna of a transmission means is arranged along an endoscope main body and does not protrude.

COPYRIGHT: (C)1990,JPO&Japio